

PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Jean-Pierre BALECH

Attorney Docket Q62176

Appln. No.: Not yet assigned

Group Art Unit: Not yet assigned

Filed: December 15, 2000

Examiner: Not yet assigned

For: A METHOD FOR ENHANCING THE CAPACITY OF A CELLULAR RADIO-
COMMUNICATION SYSTEM AND CORRESPONDING SYSTEM

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Page 1, after the title, insert the heading --**Background of the Invention**--.

Page 4, after line 11 (according to the line numbering), insert the heading --**Summary of the Invention**--.

Page 5, paragraph beginning at line 5, please amend to read as follows:

The present invention also concerns a cellular system wherein end-users located in at least one domain of a cell in which the interference level is lower than a predefined interference level communicate with the base station by using a second modulation type over a second communication channel, a second modulation type having a higher efficiency than the first modulation type, the size and location of the domains in the cell depending on the antenna directivity of the distant end-users and on the relative position of the distant base station and the base station.

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PRELIMINARY AMENDMENT
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Page 5, after line 6, insert the heading --**Brief Description of the Drawings**--.

line 20, insert the heading --**Detailed Description of the Invention**--.

IN THE CLAIMS:

Please enter the following amended claims:

Claim 4 (Amended), A method according to claim 1, characterised in that, said first modulation type is 4 QAM and said second modulation type is 16 QAM.

Claim 5, (Amended), A method according to claim 1, characterised in that said first and second communication channels are channels of a frequency and/or time and/or code division multiplex scheme.

IN THE ABSTRACT:

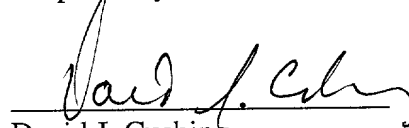
After the heading, delete the title in its entirety.

After the abstract, delete "Fig. 1".

REMARKS

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,



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APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The specification is changed as follows.

Page 5, paragraph beginning at line 5

The present invention also concerns a cellular system [according to claim 6]
wherein end-users located in at least one domain of a cell in which the interference level is lower
than a predefined interference level communicate with the base station by using a second
modulation type over a second communication channel, a second modulation type having a
higher efficiency than the first modulation type, the size and location of the domains in the cell
depending on the antenna directivity of the distant end-users and on the relative position of the
distant base station and the base station.

IN THE CLAIMS:

The claims are amended as follows:

Claim 4, A method according to [one of the claims 1 to 3]claim 1, characterised in that,
said first modulation type is 4 QAM an said second modulation type is 16QAM.

Claim 5, A method according to [one of the claims 1 to 4]claim 1, characterised in that
said first and second communication channels are channels of a frequency and /or time and /or
code division multiplex scheme.